Mahdi Taherahmadi

M.Sc. Student, Computing Science, Simon Fraser University, BC, Canada

14taher@gmail.com | taherahmadi@sfu.ca Webpage : http://sfu.ca/~mtaherah Github : https://github.com/taherahmadi

RESEARCH INTERESTS

Reinforcement Learning, Human-Robot Interaction, Computational Neuroscience, Cognitive Science

EDUCATION

Simon Fraser University, British Columbia, Canada

M.Sc, Computing Science - GPA: 3.84

Sept' 19 - Sept' 21

Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran

B.Sc, Computer Engineering.

July' 13 - July' 18

RESEARCH EXPERIENCE & PROJECTS

Research Assistant - MARS Lab

- Human Navigational Intent Inference

Supervisor: Prof. Mo Chen

Aug '19 - Present

RESEARCH EXPERIENCE & PROJECTS

Data Analyst - Rahnema Co.

- RDMA Big Data R&D Team

- Optimizing Digital Advertising Campaigns

Jan '18 - Mar '19

Research Intern - AIRLab - Polytechnic University of Milan

- Simulation and Evaluation of Realistic Wireless Communication in Multi-Robot Scenarios

Supervisor: Prof. F.Amigoni

May '17 - Sept '17

Research Assistant - Cognitive Robotics Lab - AUT

- Vision-based Advanced Driver Assistance System(ADAS)

BSc Project - Superviser: Dr. Shiry

Oct '16

Oct '16

- Comparing Corresponding fMRI, ECOG and EEG data in Human VTC

Joint Project with Royan Institute of Research - Superviser: Dr. Khaligh-Razavi

- Victim Detection and 3D Pose Estimation from 2D Images for a Rescue Robot Supervisor: Dr. Shiry Nov '16

- Community Detection in Social Networks

Fanavard International Data Mining Challenge

Oct '16

- RoboCup Rescue Simulation League Base Code

Team SOS VR, Supervisor: Dr. Shiry

Sept '16

- Object Classification using Convolutional Neural Networks with Attention Layers CNN Group, Supervisor: MSc S.MalekGHasemian, Prof. Safabakhsh Jan '16

	- Robust Cross Sign Detection for Aerial Robot using Template Matchi Supervisor: Dr. Shiry	hing Algorithm Dec '15
	- Humanoid Robot Localization and Behavior Strategy AUT Robotics Research Center(ARC), Supervisor: Dr. Shiry July	'14 - July '15
Awards &	3rd Place - FIRA RoboWorld Cup 2018	Aug '18
ACHIEVEMENTS	- Team MCS, Simurosot - Miro Middle, Taichung, Taiwan 3rd Place - FIRA RoboWorld Cup 2018	Aug '18
	- Team MCS, Simurosot - RoboChallenge, Taichung, Taiwan 13th Place out of 100 teams - AUTDMC 2017	Nov '17
	- Amirkabir Data Mining Cup 2017, Tehran, Iran 2nd Place - RoboCup 2017	July '17
	- Team SOS VR, Rescue Simulation Virtual Robot league, Nagoya, Japan 1st Place - RoboCup IranOpen 2017	Apr '17
	- Team SOS VR, Rescue Simulation Virtual Robot league, Tehran, Iran 9th Place out of 60 Teams - Sharif Programming Marathon 2016 - Magnet: The Localized Shopping Recommender System using PredictionIO Place of Teachers of Teachers and Teachers of Teachers o	Sept '16 atform,
	Sharif University of Technology, Tehran, Iran 3rd Place - RoboCup 2016	July '16
	- Team SOS VR, Rescue Simulation Virtual Robot league, RoboCup 2016, Leipz 3rd Place - <i>RoboCup 2015</i> -Teen size humanoid soccer league, RoboCup 2015, Hefei, China	zig, Germany July '15
	Top 0.03% - among more than 300,000 participants - Nation-wide University Entry Exam	July '13
& Technical Reports	Time Series Analysis", Technical Report on Statistical Machine Learning Final P S. Azami, M. TaherAhmadi. "Implementing and Evaluating Naive Bayes Mode Heart Disease Classification", Technical Report on SML Final Project, Oct '16. M. TaherAhmadi. "Implementing and Analysing Linear Regression on a Data Grades", Technical Report on SML Final Project, Oct '16. M. TaherAhmadi, S. Azami, S. Shiry, "S.O.S VR Team Description Paper, Robcue Virtual Robot League", <i>International RoboCup Competition</i> , Julyy 2016, Lei S. Azami, M. TaherAhmadi, "Image Compression Using Low-Rank Matrix A Technical Report for Advanced Mathematics course Project, Dec '16.	el and PGM for a Set of Student coCup2016 Res- ipzig, Germany.
TEACHING EXPERIENCE	Computer Engineering Department, Amirkabir University of technology: - Teaching Assistant - Linear Algebra and its Applications - Dr. Ehsan Nazer - Teaching Assistant - Principles of Programming Languages(C) - Dr. Shiry - Teaching Assistant - Engineering Statistics - Dr. AmirHaery - Teaching Assistant - Discrete Structures - Dr. Fallah - Teaching Assistant - Data Structures & Algorithms - Dr. Dehghan - Teaching Assistant - Principles of Programming Languages(C) - Dr. Shiry - Teaching Assistant - Advanced Programming (JAVA) - Dr. Pourvatan - Teaching Assistant - Principles of Programming Languages(C) - Dr. Shiry Medical Engineering Department, Amirkabir University of technology: - Teaching Assistant - Robotics - Dr. AhmadiPajouh	rfard spring '17 Fall '16 Spring '16 Spring '16 Fall '15 Fall '15 Fall '14
Notable Coursework Projects	Heart Disease Classification using PGM - Statistical Machine Learning Power Usage Data Time Series Analysis - Statistical Machine Learning Linear Regression on Student Grades Data - Statistical Machine Learning Face Recognition Using SVD - Advanced Engineering Mathematics SVD Image Compressor - Advanced Engineering Mathematics	Fall '16 Fall '16 Fall '16 Fall '16 Fall '16

	Graph Based Motion Planner - Design Algorithm Huffman Coding Data Compression - Data structures & algorithms Journoung (The Strategy Game) - Advanced Programming(Java) Mini Assembler - Principles of Programming Languages(C)	Spring '15 Fall '14 Spring '14 Fall '13
Work Experience	Data Analyst - Python, Plotly Dash, Apache Airflow, Apache Spark, Oracle DB, MongoDB - Rahnema Company, Beheshti ave, Tehran, Iran.	8 - Present
		5 - Oct '16
	Software Developer - Java, MySql, HTML, CSS, Illustrator, Git - RAPNA, Roshd Science & Technology Center, Tehran, Iran.	3 - Dec '14
Computer Skills	Languages: C, C++, Qt, Java, Python, Matlab, Bash, JS, PHP, Assembly Database Systems: MySQL, SQL Server Typesetting: LATEX, Microsoft Word Frameworks, Operating Systems, and Scientific Tools: Linux, ROS, OpenCV, Weka, Caffe, Theano, Spark, NumPy, Pandas, Scikit-learn, pgmpy, Git, Docker Designing Tools: Adobe Photoshop, Adobe Illustrator, Gimp	
VOLUNTEER EXPERIENCE & POSITION OF RESPONSIBILITY	Technical Committee of RoboCup AsiaPacific 2018 - Virtual Robot Rescue. Technical Committee of RoboCup IranOpen 2018 - Virtual Robot Rescue. Lecturer at CEIT Robotic Summer School - Introduction to ROS Presenter at 9th Linux Festival - Introduction to Virtual Robot Technical Committee of RoboCup IranOpen 2017 - Virtual Robot Rescue. Leader of Team S.O.S vr - RoboCup Rescue, Virtual Robot Competition. Presenter at 8th Linux Fest - Introduction to Cuda, Caffe, ROS & Docker Member of 7th, 8th & 9th Linux Fest Organization team Director of Cognitive Robotics Lab - Computer Engineering department. Coach and Captain of Faculty football team. Chief Editor of 0&1 magazine - CEIT Students Scientific Chapter Editor at Pouyesh magazine - CEIT students association	Dec '18 Apr '18 June '17 May '17 Apr '17 July '16 May '16 May '16 July '15 Sept '14 Oct '14 Sept '13
Spoken Languages	Persian(Native), Turkish(Native), Arabic(Fair) English(Fluent) (TOEFL - 10 Nov - R:26 L:28 S:22 W:23 - Total:99) (TOEFL - 1 Dec - R:25 L:25 S:26 W22 - Total:98)	
REFERENCES	Mo Chen - Assistant Professor - School of Computing Science, Simon Fraser University - mochen@cs sty.ca - Home Page	

Angelica Lim - Assistant Professor

- School of Computing Science, Simon Fraser University
- angelica@rosielab.ca Home Page

Saeed Shiry - Assistant Professor

- Computer Engineering Department, Amirkabir University of technology
- shiry@aut.ac.ir Home Page

Francesco Amigoni - Associate Professor

- Department of Electronics, Information and Bioengineering, Polytechnic of Milan
- $francesco.\,amigoni@polimi.it$ Home Page